

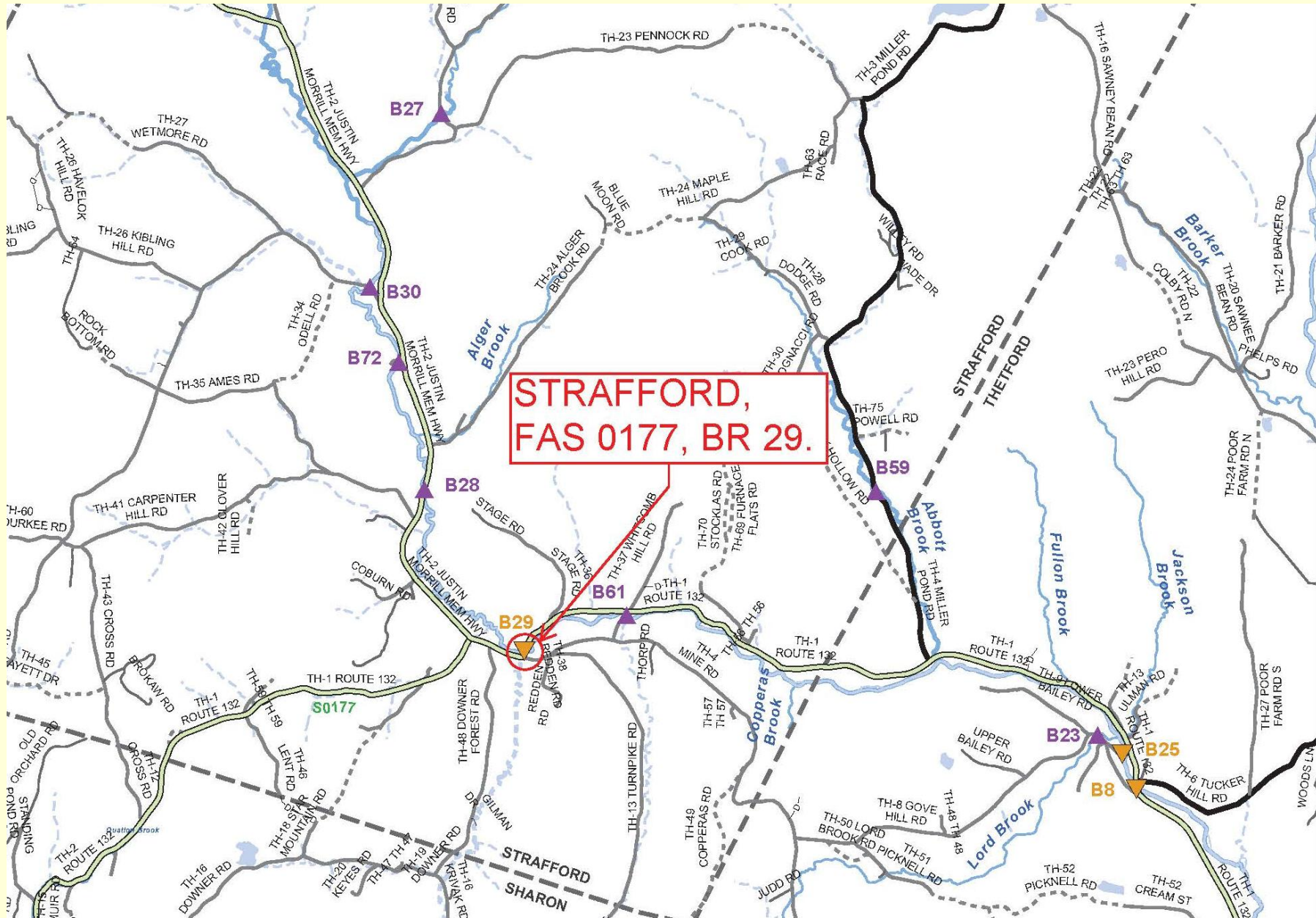
**Strafford BF 0177(10)
Bridge 29 on VT Route 132 (FAS 177)
over the West Branch of Ompompanoosuc River
Public Informational Meeting**



**Presented by
Christopher P. Williams, P.E.
Senior Project Manager, Structures Section
Vermont Agency of Transportation
Chris.Williams@State.VT.US**

January 21, 2014

PROJECT LOCATION



Meeting Outline

- Purpose of the Meeting
- Existing bridge information
- Proposed project information
- Next Steps
- Questions

Purpose of Meeting

- Present the Conceptual plans
- Provide you with the chance to ask questions.
- Provide you with the chance to voice concerns
- Build consensus for the proposed project-

Phases of Development

Project
Funded

Project
Defined

Contract
Award

Project Definition

Project Design

Construction

Identify resources &
constraints

Evaluate alternatives

Public Participation

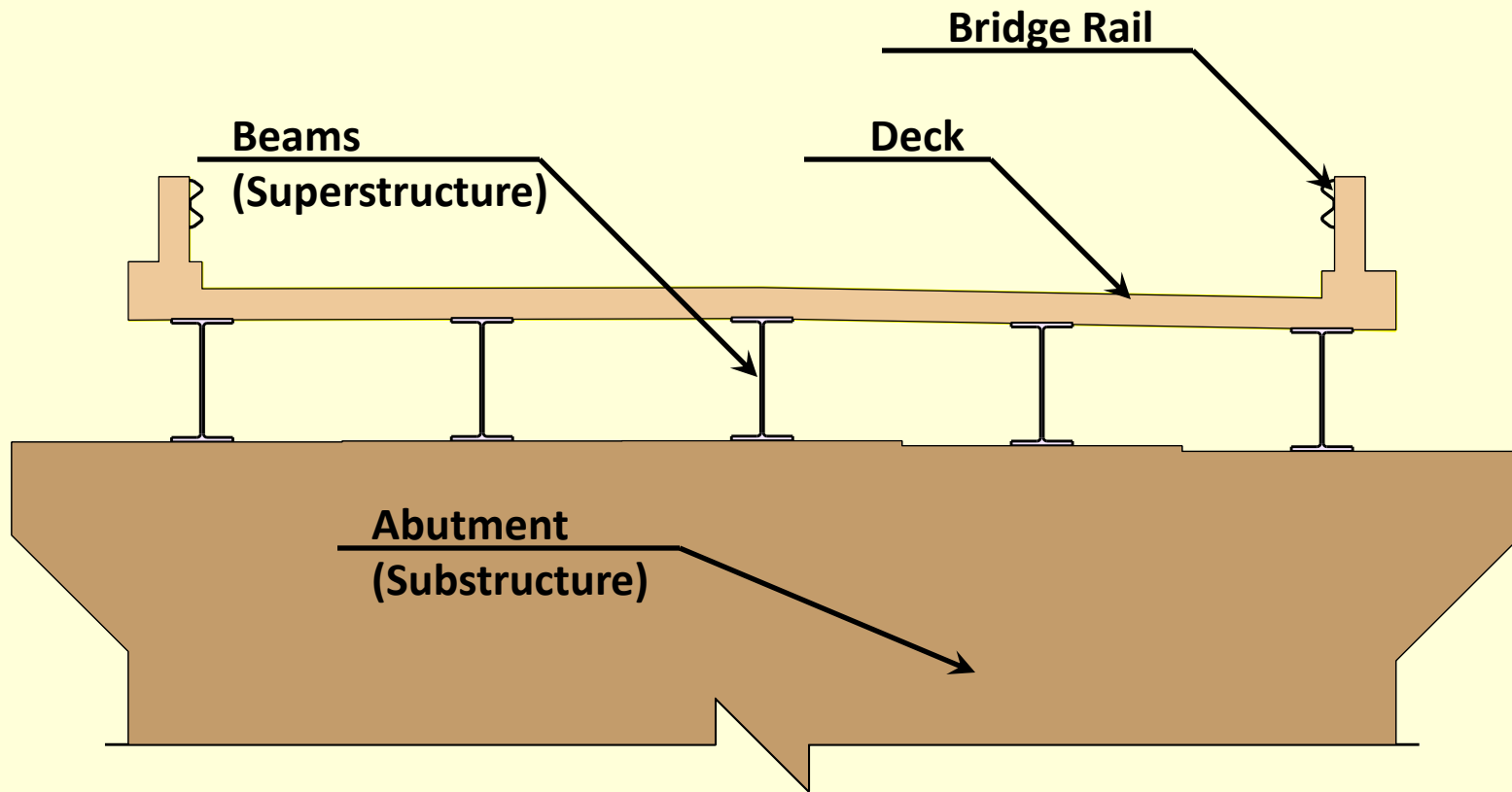
Build Consensus

- Quantify areas of impact

- Environmental permits

- Develop plans, estimate and specifications

Description of Terms Used



Project Background

- The structure is owned and maintained by the Town
- VT Rte 132 (FAS 177) is a Class 2 Town Highway
- Functionally labeled as a Rural Major Collector
- Posted Speed = 25 mph (Design Speed)
- Existing bridge is a single span concrete T-Beam
- Span length = 46 feet
- Bridge Width = 20.6 feet
- The bridge was built in 1923 (90 years old)

Traffic Data

	“Construction Year” 2016	“Design Year” 2036
Average Annual Daily Traffic	1,400	1,500
Design Hourly Volume	180	190
Average Daily Truck Traffic	65	110
%Trucks	3.7	6.0

EXISTING BRIDGE DEFICIENCIES

Inspection Rating Information (Based on a scale of 9)

Bridge Deck Rating	4 Poor
Superstructure Rating	7 Good
Substructure Rating	5 Fair

Rating Definitions

9 Excellent
8 Very Good
7 Good
6 Satisfactory
5 Fair
4 Poor
3 Serious
2 Critical
1 Imminent Failure

Deficiencies

- The bridge is structurally deficient with a poor deck rating
- The lane and shoulder widths are substandard
- The horizontal and vertical geometry is substandard
- The bridge is undersized hydraulically

Looking South over Bridge



Looking North over Bridge



Underside of Deck



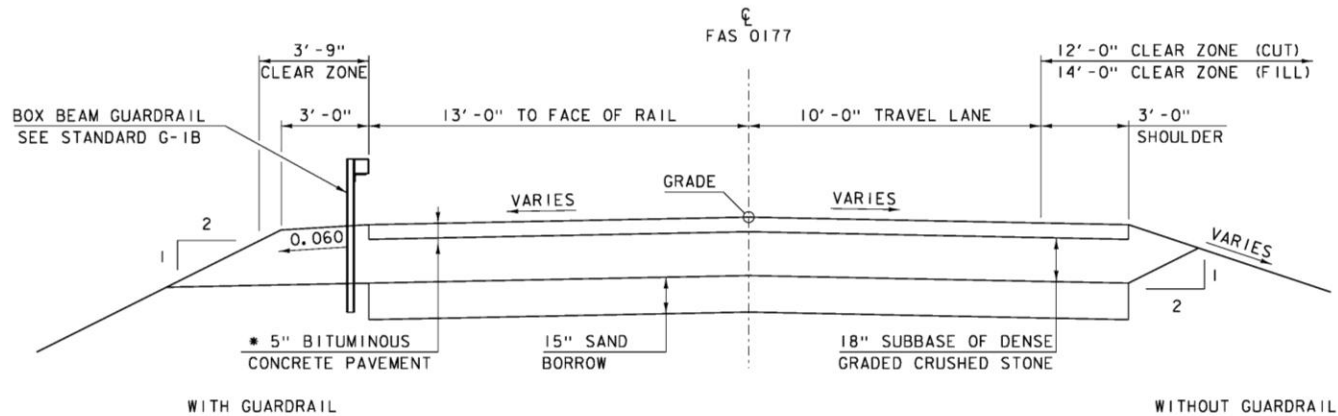
North Abutment



Proposed Project Details

- Complete Bridge replacement
- 60' span w/ substructure on steel H piles
- 26' width between face of rail
- Maintain existing centerline of bridge
- Maintain approximate vertical grade of bridge

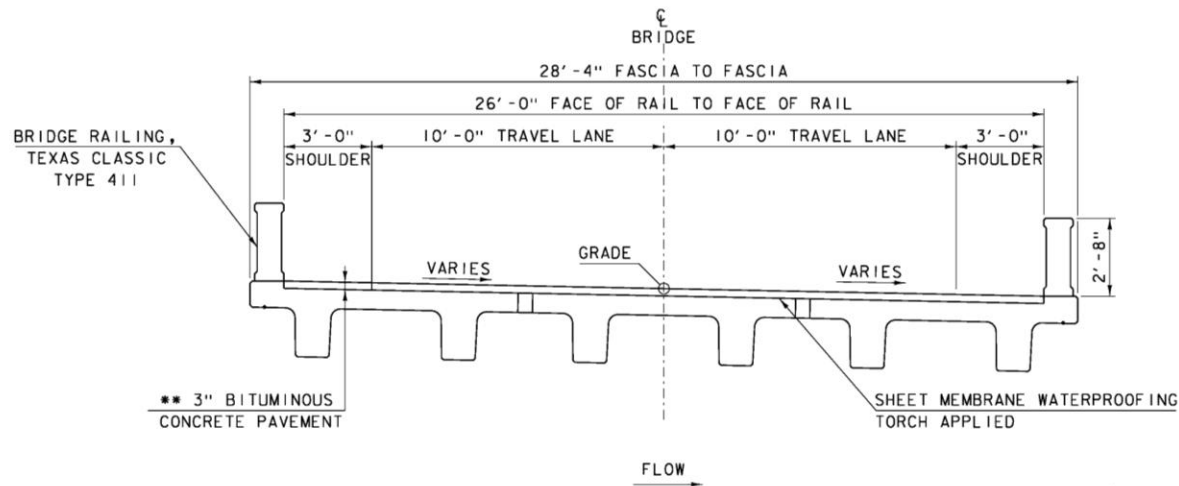
Proposed Typical Sections



PROPOSED FAS 0177 TYPICAL SECTION

SCALE $\frac{3}{8}" = 1'-0"$

* $1\frac{1}{2}"$ TYPE IVS OVER
 $1\frac{1}{2}"$ TYPE IVS OVER
 2" TYPE IIIS

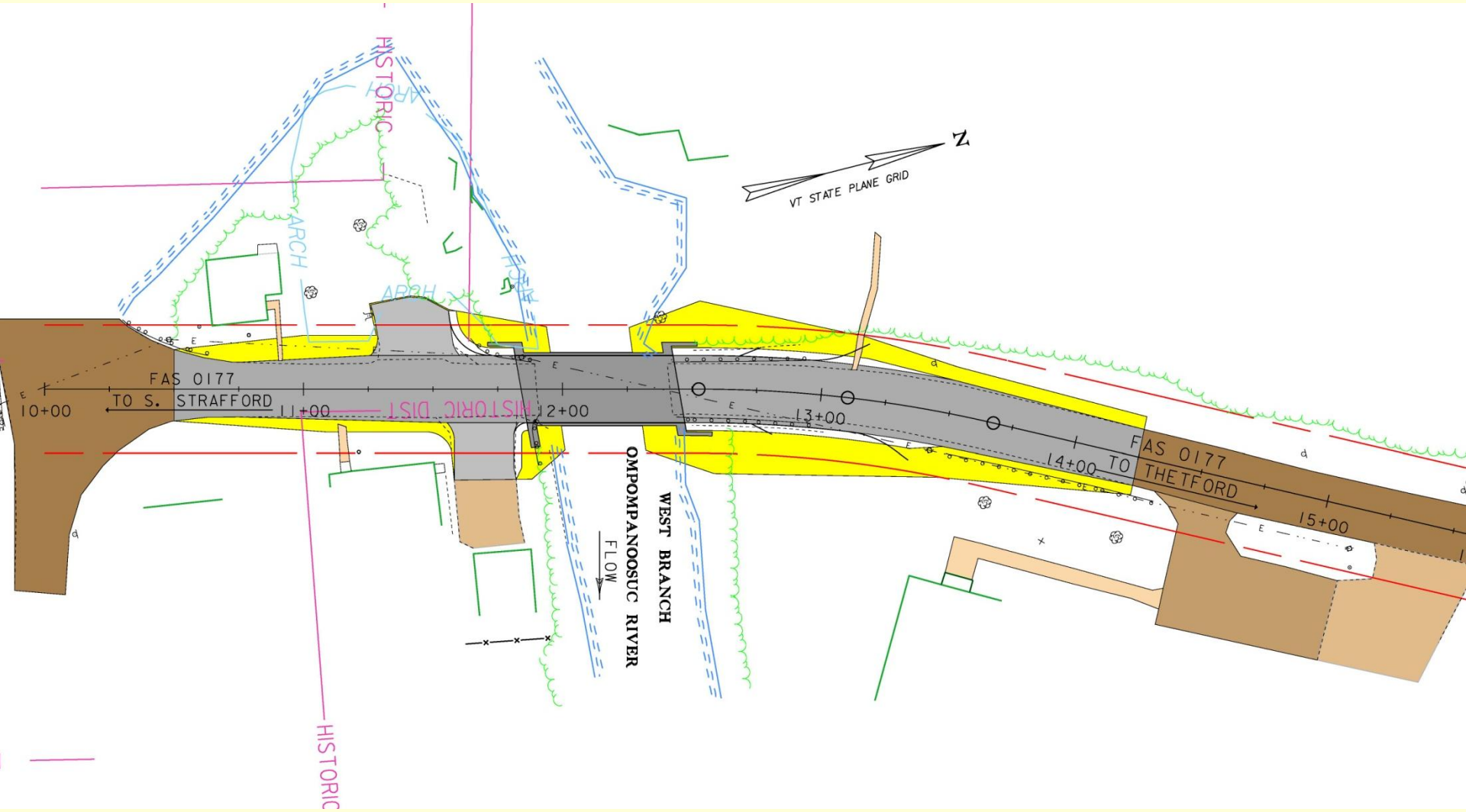


PROPOSED BRIDGE TYPICAL SECTION

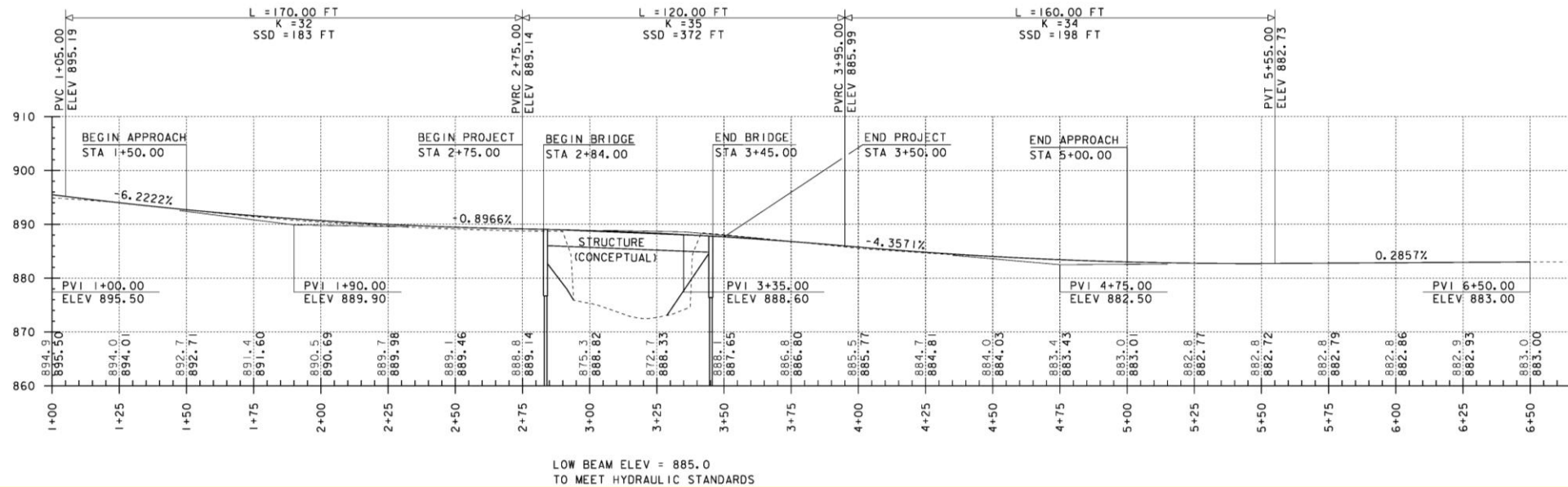
SCALE $\frac{3}{8}" = 1'-0"$

* $1\frac{1}{2}"$ TYPE IVS OVER
 $1\frac{1}{2}"$ TYPE IVS

Layout of Proposed Bridge



Profile of Proposed Bridge



Traffic Maintenance

- Short term bridge closure with detour
- Bridge 29 to be closed for 28 days (maximum)
- Allow 24/7 construction during bridge closure
- Contract incentives/dis-incentives to encourage contractor
- Community would have input on time of closure (between June 1 and September 1)
- Town will be responsible for detour route
- Public Outreach to provide advance notice for planning
- Local share will be cut in half (10% reduced to 5%)-

Scope - Cost - Schedule

The project cost and schedule can not be determined until the scope of the project is clearly defined.

Preliminary Engineering	\$ 245,000
Right-of-Way	\$ 54,000
Construction w/ CE and Contingencies	\$1,100,000
Total	\$1,399,000

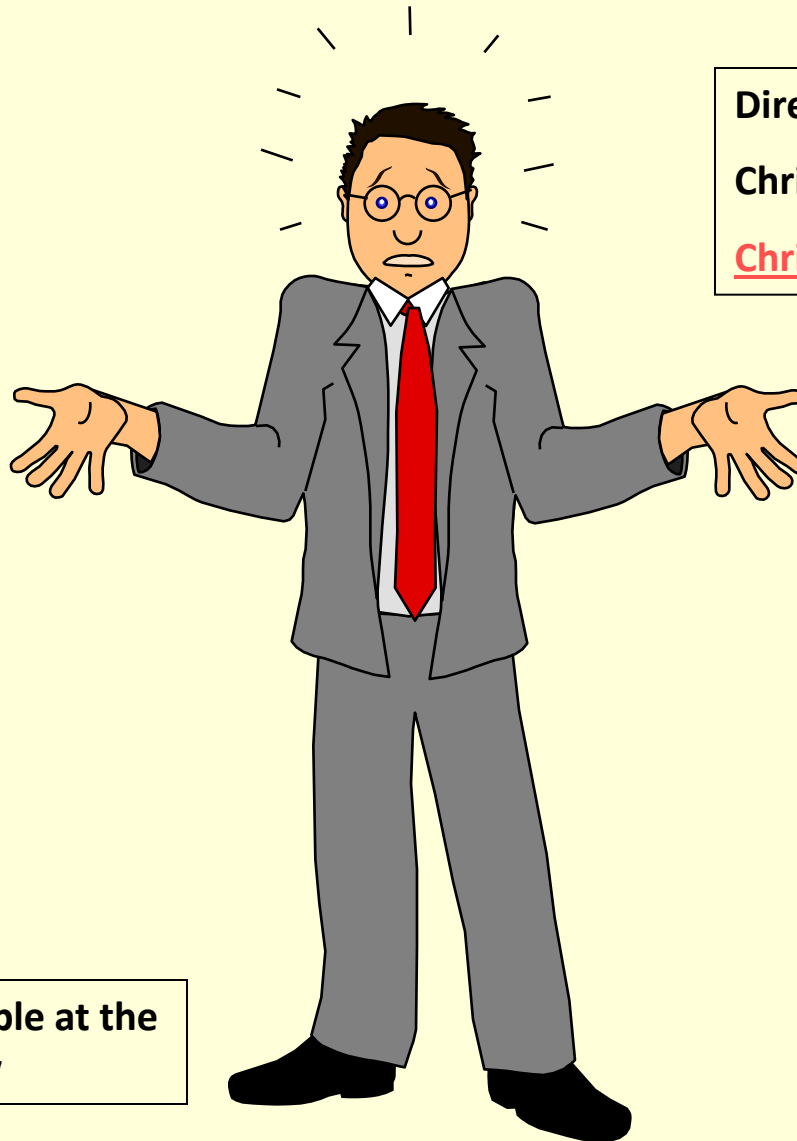
- Construction is currently scheduled for 2016
- Many factors can effect construction year
- Project is funded 80% Fed – 15% State – 5% Local
- Construction year is assuming Federal & State funding is available

Next Steps

This is a list of a few important activities expected in the near future and is not a complete list of activities.

- Wait to hear public comments on Conceptual plans
- PROJECT DEFINED - Milestone
- Develop Preliminary Plans
- Environmental permitting
- Consider Town involvement in Right-of-Way process
- Right-of-Way process
- Utility relocation process

Questions



Direct any questions to:

Christopher P. Williams, P.E.

Chris.Williams@State.VT.US

**This presentation is available at the
web address shown below**

<https://outside.vermont.gov/agency/vtrans/external/Projects/Structures/13J088>